## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018807

		1 101/012	108810/40001
A. CLASSIFIC	CATION OF SUBJECT MATTER F24C1/00		
According to Int	ernational Patent Classification (IPC) or to both nationa	I classification and IPC	
B. FIELDS SE			
Minimum docum Int.Cl <sup>7</sup>	nentation searched (classification system followed by cl F24C1/00, F24C7/02	assification symbols)	
Documentation s	earched other than minimum documentation to the exte	nt that such documents are included in the	e fields searched
		roku Jitsuyo Shinan Koho tsuyo Shinan Toroku Koho	1994-2004 1996-2004
Electronic data b	ase consulted during the international search (name of	data base and, where practicable, search to	erms used)
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
X	Microfilm of the specification	on and drawings	1-7,11
Y	annexed to the request of Jap		8-10,12
	Model Application No. 57679/1 No: 172905/1986)	.985 (Laid-open	
	(Hitachi Netsukigu Kabushiki	Kaisha),	
	27 October, 1986 (27.10.86),		
1	Full text (Family: none)		
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X Y	Microfilm of the specification annexed to the request of Jap		1-7,11 8-10,12
	Model Application No. 57680/1		0-10,12
	No. 172902/1986)	-	
	(Hitachi Netsukigu Kabushiki 27 October, 1986 (27.10.86),	Kaisha),	
	Full text		
	(Family: none)		
Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered		"T" later document published after the inte date and not in conflict with the applica	
to be of particular relevance  "E" earlier application or patent but published on or after the international		the principle or theory underlying the in "X" document of particular relevance: the o	
filing date		"X" document of particular relevance; the considered novel or cannot be considered step when the document is taken alone	lered to involve an inventive
cited to establish the publication date of another citation or other		"Y" document of particular relevance; the c	laimed invention cannot be
special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means		considered to involve an inventive s combined with one or more other such	documents, such combination
"P" document published prior to the international filing date but later than the priority date claimed		being obvious to a person skilled in the "&" document member of the same patent f	
priority date			•
Date of the actual completion of the international search		Date of mailing of the international search report	
12 Jani	uary, 2005 (12.01.05)	08 February, 2005	(00.02.05)
Name and	or address of the ISA/	Authorized officer	
Name and mailing address of the ISA/ Japanese Patent Office		Addionized officer	
Facsimile No.		Telephone No.	
CALSO DE INC			

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International application No.

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X .	JP 55-53895 A (Hitachi Netsukigu Kabushiki Kaisha), 19 April, 1980 (19.04.80), Full text (Family: none)	1
<b>x</b>	JP 1-195692 A (Toshiba Corp.), 07 August, 1989 (07.08.89), Full text (Family: none)	1
Y	JP 9-229377 A (Sharp Corp.), 05 September, 1997 (05.09.97), Full text (Family: none)	8-10
Y	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 3036/1992(Laid-open No. 10707/1994) (Tiger Co., Ltd.), 10 February, 1994 (10.02.94), Full text (Family: none)	8-10
Y	JP 61-213513 A (Matsushita Electric Industrial Co., Ltd.), 22 September, 1986 (22.09.86), Full text (Family: none)	12
· <b>Y</b> ·	JP 57-9604 Y2 (Matsushita Electric Industrial Co., Ltd.), 24 February, 1982 (24.02.82), Full text (Family: none)	12
A	JP 57-19529 A (Tokyo Shibaura Electric Co., Ltd.), Ol February, 1982 (01.02.82), Full text (Family: none)	1-12
А	JP 8-128639 A (Sanden Corp.), 21 May, 1996 (21.05.96), Full text (Family: none)	1-12